

Process of manufacturing porous separator for electrochemical power supply

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 EP0814520 (A3)


 US5948464 (A)

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Cited documents:

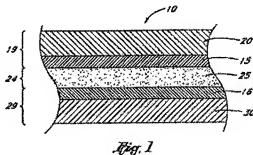
 WO9311571 (A1)

 EP0730316 (A1)

 WO9323886 (A1)

Abstract of EP 0814520 (A2)

A method of forming a porous composite separator layer for an electrochemical cell comprising the steps of printing a thin layer of a separator precursor solution on the surface of one of the electrochemical cell electrodes, drying and curing the thin layer of separator precursor solution so that it transforms into a microporous composite separator structure. In the preferred embodiment, the separator precursor solution is formulated as an ink comprising a silica aerogel filler material dispersed in a solution of polymer binder which is dissolved in a suitable solvent. The process allows the manufacture of thin and flexible composite separators which are conformally bonded to the underlying electrodes.



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